# Airborne Information for Lateral Spacing

# **AILS**

Presented by Tom Doyle, Adsystech, Inc., NASA LaRC to the Management Staff of Minneapolis-St. Paul Air Traffic Control Facility on November 3, 1998.

With Hugh Bergeron, FAA Site Manager LaRC, AAR-210

## **AILS Research**

AILS-----NASA/FAA

CSPA-----RTCA

CASPER-----Honeywell, Inc

## Goal

Minimum Parallel Runway Separation to Conduct Independent Approaches

• Standard 4300 feet

• PRM 3400 feet

AILS goal---Minimum of 2500 feet between runways

## **Objective**

• To enable approaches to closely spaced parallel runways in IMC with a capacity similar to that obtained in VMC

• To provide the means for airborne flight crews to take responsibility for lateral aircraft separation during the approach

# **Technology**

An accurate and reliable navigation system

• DGPS

An alerting and safety system

- ADS-B
- Algorithms

# **Developers and Supporters**

• NASA

• FAA

• Honeywell, Inc.

• RTCA

Airlines

## Validation

- Workshop
- Monte Carlo Analysis
- Integration Flight Deck Simulation Studies
- Flight Tests
- Flight Demo

## Why AILS

- Some airports loose capacity during IMC
- Costs to the airlines and the public

#### **Plans**

- On Going Development Activities
- April 1999------Integration Flight Deck (IFD)
  Simulation Study
- August 1999-----B757/G-4 Flight Test
- September 1999-----Flight Demo

## **Contacts and Other AILS Information**

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Web Site: http://ails.larc.nasa.gov/AILS.htm